1   What is claimed is:

1.   A method of configuring processors in a target system,
2   comprising:
3   prompting a user to select workload units to use in the
4   configuration of the processor in the target system;
5   prompting the user to input a quantity of processing power required
6   in terms of partition workload capacity required;
7   obtaining a system work capacity for the target system in the
8   appropriate units from a look-up table;
9   calculating the number of partition processors;
10   wherein the number of partition processors equals the total number
11   of system processors, times the partition workload capacity divided by the
12   system work capacity;
13   testing the calculated number of partition processors to see if it is
14   within a predetermined percentage of the next full processor increment;
15   if within the predetermined percentage, then recommending using
16   dedicated processors, otherwise recommending using shared processors;
17   displaying the calculated number of partition processors and the
18   recommended use of dedicated or shared processors to the user for
19   validation or changing of the values; and
20   after validation, configuring the target system processors according
21   to the settings determined by the routine.
22

1   2.   The method according to claim 1, wherein the workload units
2   to use in the configuration of the processor in the target system are in
3   commercial processing workload (CPW) units, transaction processing
4   performance council (TPC-C) units, or any well-defined workload
5   measurement units.
6

10

3. The method according to claim 1, wherein the number of partition processors calculated has a resolution of at least two digits to the right of the decimal.

4. The method according to claim 1, wherein the predetermined percentage of the next full processor increment is twenty-five percent.

5. A processing system running multiple operating system images (same or different) having logical partitions and implementing the method according to claim 1.

6. A computer program product, comprising:
a recording medium; and
instruction means, disposed on the recording medium, for causing a computer to implement the method of configuring processors in a target system according to claim 1.

7. A computer system having processing means, storage means, input means, and display means, and operating a graphical user interface utilizing the method according to claim 1.

8. A graphical user interface comprising:
means for prompting a user to select workload units to use in configuration of processors in a target system;
means for prompting the user to input a quantity of processing power required in terms of partition workload capacity required;
means for obtaining a system work capacity for the target system in the appropriate units from a look-up table;
means for calculating the number of partition processors;

11

9 wherein the number of partition processors equals the total number

10 of system processors, times the partition workload capacity divided by the

11 system work capacity;

12 means for testing the calculated number of partition processors to

13 see if it is within a predetermined percentage of the next full processor

14 increment;

15 means for recommending using dedicated processors if within the

16 predetermined percentage, and otherwise recommending using shared

17 processors;

18 means for displaying the calculated number of partition processors

19 and the recommended use of dedicated or shared processors to the user

20 for validation or changing of the values; and

21 means for configuring the target system processors according to

22 the settings determined by the above means after validation.

23

1 9.   The graphical user interface according to claim 8, wherein

2 the workload units to use in the configuration of the processor in the target

3 system are in commercial processing workload (CPW) units, transaction

4 processing performance council (TPC-C) units, or any well-defined

5 workload measurement units.

6

1 10.   The graphical user interface according to claim 8, wherein

2 the number of partition processors calculated has a resolution of two digits

3 to the right of the decimal.

4

1 11.   The graphical user interface according to claim 8, wherein

2 the predetermined percentage of the next full processor increment is

3 twenty-five percent.

4

12

Sub A

1   12.   A processing system running multiple operating system

2   images (same or different) having logical partitions and implementing the

3   a graphical user interface according to claim 8.

4

1   13.   A computer program product, comprising:

2   a recording medium; and

3   instruction means, disposed on the recording medium, for causing

4   a computer to implement the graphical user interface according to claim 8.

5

1   14.   A computer system comprising:

2   partition processing means for running multiple operating system

3   images;

4   storage means for storing a program and data;

5   an input device for inputting data; and

6   display means for displaying graphical representations to a user;

7   wherein the program implements the graphical user interface for

8   configuring processors.

9